

TT-64-10764

Yakubovich, A. Ya. and Klimova, V. A.
ON THE REACTION OF ETHYLENE DIAMINE WITH
CARBON DISULFIDE AND ON ETHYLENE-DI-ISO-
THIOCYANATE [O Vzalimodelstvi Bislendiamina s
Serouglerodom to Etlendilizototsyanate]. [1964] [14p]
Sref's

I Yakubovich, A. Ya.
II Klimova, V. A.
III ATS-RJ-72

Order from OTS, SLA, or ETC \$1.60 TT-64-10764

Trans. of [Zhurnal Obshchei Khimii] (USSR) 1939, v. 9
[no. 19] p. 1777-1782.

Other translations are available in Dutch from OTS or
ETC \$1.40 as TT-61-17714, MTWL-144, 5p; in English
from ATS as RJ-72.

(Chemistry--Organic, TT, v. 11, no. 12)

Office of Technical Services

Mel'nikov, N. N., Sklyarenko, S. I., and
Cherkasova, E. M.
THE ELECTROCHEMICAL INTRODUCTION OF THE
THIOCYANATE INTO ORGANIC COMPOUNDS.
[1963] 7p 15 refs

Order from OTS, SLA or ITC \$1.10 TT-63-20672

Trans. of Zhurnal Obshchei Khimii (USSR) 1939,
v. 9, p. 1819-1824.

DESCRIPTORS: *Thiocyanates, *Electrochemistry,
*Electrolysis, Organic compounds, Benzines.

(Chemistry--Organic, TT, v. 11, no. 2)

TT-63-20672

I. Mel'nikov, N. N.
II. Sklyarenko, S. I.
III. Cherkasova, E. M.

Office of Technical Services

Electrical Conductivity in System $\text{AlCl}_3\text{-KCl}$, by ~~42-2~~
A. I. Kiselev, 15 pp.

RUSSIAN, no 197, Zhur' Gidra Khim, Vol 16, No 22,
1919, 2001-2005.

CTE 11-1-20749

SLA-R-2004

Sci Tr Center RI-726

16007

Scientific - Chemistry

K-H-2867 ALA

Naphtrene-Aromatic Hydrocarbons of the Series of
Naphthalene and Tetralin With a Cyclopentyl Ring
in the Side Chain, by E.S. Pokrovskaya, R.Ya.
Sushchik. 7 pp.

RUSSIAN, per, Zhurnal Obshchei Khimii, Vol 9,
No 24, 1939, pp 2291-2301.

SLA TT-61-16857

Sci/Chemistry
Jul 66

305,996

61-16840

Lozovoi, A. V. and D'yakova, M. I.
HYDROGENATION VELOCITIES OF AROMATIC AND
UNSATURATED HYDROCARBONS, IV. [1961] 7p.

Order from CFI or SLA \$1.10

61-16840

Tsvetkov, A. Z. and G. I. Kozlov (USSR) 1940, v. 10,
p. 1-10.

Another translation is available from ATS \$17.00 as
ATS-5-1140R [1960] 12p.

DESCRIPTORS: Hydrogenation; Hydrocarbons, Mono-
cyclic compounds.

The relative velocities of hydrogenation of benzene,
naphthalene, anthracene, 1-methyl-1-cyclohexene,
1-methyl-2-cyclohexene, and 1-methyl-3-cyclohexene.

The authors report on the results of the kinetic
study of the hydrogenation of some of them. Benzene is
hydrogenated in the presence of nickel-alumina.

(See also DTIC report, TT, V. 6, 60, 7) (over)

- I. Lozovoi, A. V.
- II. D'yakova, M. I.
- III. Title: Rates of Hydro-
genation of Aromatic
and Unsaturated
Hydrocarbons, IV

61-16840
1961

For sale by the Library

Chemistry of Titanium, XV, Polymorphic Structures
of Titanium Dioxide, by A. V. Panchikov, A. G.
Ivancheva, 8 pp.

1e.

RUSSIAN, per. Zhur Obshch Khim, Vol X, No 3, 1940,
pp 153-157.

Sci Trans Center RT-8765

DEAR 144 11-1028 (1040)

Scientific - Chemistry
CTB/TMX

14,037

Higher-Order Transformations of Urea,
by V. A. Sokolov, 9 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol X,
1940, pp 165-171.

SLA R-2187

Sci

Aug 58

72,152

Apparent Molar Volumes of Salts in Ammonia and
Water Solutions, by M. I. Akhmedov, 22 pp.

RUSSIAN, per, Zhur Oshch Khin, Vol X, 1960,
pp 233-240.

SLA R-2471

Sci
Apr 59

84,427

Zhur Obnizh Khin, K. 5-6: 497-506; 1940

Isomerization of Oxaldehydes

by A. M. Gachokidze

Trans. at National Insts of Health, Bethesda, Md.

New Method of Obtaining Titanium Sulfate. III, by B. E.
Bogdanovskaya, O. M. Ostapenko, 8 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol. X, No 8, 1940,
pp 673-678

Sci Tr Center RF-3972

Sci - Chemistry

41,551

Chemistry of Titanium Sulfate. IV, by ~~XXXXXXXX~~
B. E. Boguslavskaya, O. M. Ottomarovskaya.

RUSSIAN, Izv. Akad. Nauk SSSR, Vol. X, No. 8,
1940, pp 677-682.

Sci Tr Center
III RT-3033

Sci - Chemistry
Jan 1956/ACS No 77

30,542

data in A. Kh. and Shcherbakov, I. A.
THE HEAT OF REACTION OF SULFUR
MONOCHLORIDE WITH METHYL AND ETHYL
ALCOHOLS. [1961] 5p. 3 refs.
Order from OTS or SLA \$1.10

62-10014

Trans. of Zhurnal Obshchei Khimii (USSR) 1940,
v. 10, no. 8, p. 730-732.

DESCRIPTORS: *Ethanol, *Methanol, *Sulfur
compounds, *Chlorides, *Heat of reaction.

(Chemistry--Organic, TT, v. 7, no. 8)

62-10014

I. Batalin, A. Kh.
II. Shcherbakov, I. A.

201298

Office of Technical Services

Chemistry of Titanium, XVI, Conversion of Anatase
to Rutile Structure, by A. V. Pakfilov, A. G.
Ivancheva, 16 pp.
ke.

RUSSIAN, Zhur Obshch Khim, Vol. X, No 8, 1940,
pp 736-741.

Sci Trans Center RI-876
DSIF RI RI-1027 (1940)

Scientific - Chemistry
CTB/MLK

14,038

Reactions of Organic α -Oxides With Alcohols
and Carbonyl Compounds in the Presence of
NEt₃ Boron Trifluoride, by A. A. Petrov,
23 pp.

RUSSIAN, per. Zhur Obshch Khim, Vol X,
No 11, 1940, pp 991-996.

SLA 60-18491

SLA
Vol IV, No 11
Jun 62

199, 243

Synthesis of Carbazi-Condensed Systems from
Alpha and Alpha'-Aminonicotines, IV. Condan-
sation of Alpha-Aminonicotine with Aceto-
Acetic Ester. by M. S. Kondakova, Ya. L. Gold-
farb, 9p

RUSSIAN, per, Zhurnal Obshchei Khimii, Vol 10
pp 1065-1068. 1940

K-M 1058

M. S. Kondakova

32,061

Sci - Chemistry
Mar 67

Diagnosis, by M. O. Bystrykh and A. V.
Kirmakov, 18 pp.

RESEARCH, no par, Zhurnal Obshchestvennykh Nauk, Vol. X,
No 12, USSR, 1960, pp 1101-1107.

CIA/TDD/X-1151

Li. Cleming Dec 1953 CTS

7568

Zait'ev, A. M. and Mamusova, E. A.
 ESSAI D'EMULSION POLAROGRAPHIE, DE SOLUTIONS NON AQUEUSES (Oxygène, Permanganate, Nitrate, Rastvorov i Poligrafii) (Experiment of Application of Nonaqueous Solutions in Poligraphy), 16p.
 (French text included Direct, CNRS-VII bis 205, Order from CTS, EIC or CNRS SO, RO "T-62-2826"

Trans. in French of Zait'ev, Gennadii Ivanovich (USSR) 1940, p. 10, no. 1, p. 1171-1176.

Translation in English available from CTS, SLA or EIC SO, RO "T-62-2826".

DESCRIPTION: Polarographic analysis, Solution, Dielectric properties, Organic solvents, Alcohols, Oxygen.

(Classification: POLYGRAPH, ET, A, H, IX, 6)

T-62-2826

I. Zait'ev, A. M.
 II. Mamusova, E. A.
 III. CNRS-VII bis 205
 IV. Centre National de la Recherche Scientifique, Paris

Centre National de la Recherche Scientifique
 European Laboratory, Paris

V
1XX# Action of Diazobenzene on Allylacetacetic Esters
as a Method of Obtaining Phenylhydrazones of Ketone
Acids and Amino Acids, by V. V. Feofilaktov,
V. B. Zaytsev, 4 pp.

RUSSIAN, Izv. Zhur Obshch Khim, Vol. X, No 15, 1940, .
BT

Sci Tr Center RT 3128

Scientific - Chemistry

31,052

Feb 56

62-18215

I. Sokov, P. G.
II. Title: Reaction.

Sokov, P. G.
REACTION OF ALPHA-AMINOPYRIDINE WITH
BENZYL. In: 1. Reaction of Alpha-Aminopyridine
with Benzyl. [1961] [83] 3 refs.
Order from OTS or S.A. 50. 10

62-18215

Trans. of Zhur[un] (Zhur[un] (el) Khim[ia] (U.S.S.R.) 1940,
v. 10 [no. 10] p. 1457-1461.

DESCRIPTORS: *Pyridines, Chemical reactions,
*Kerosene, *Benzene, Carboxylic acids, Azoles, Amines

When alpha-aminopyridine is heated with benzyl at a
temperature of 165-225°, alpha-aminopyridine reacts
in the tautomeric pyridin-2-ylidene form. The primary
reaction product is 2,3-diphenyl-2,3-dihydropyridin-4-ylidene,
which in the course of the reaction
undergoes phenyl rearrangement, forming 2,2-
diphenyl-3-oxo-2,3-dihydropyridin-4-ylidene. The 2,3-
diphenyl-3-oxo-2,3-dihydropyridin-4-ylidene compound for
(Chemistry-Organic, TT, v. 9, no. 5) (evad)

Office of Technical Services

Polymerizing Effect of Dimethyl Sulfoxide on
Ethylene Compounds. I. Polymerization of
Diphenylethylene, by V. N. Belov, B. N. Lebedev.

RUSSIAN, Dokl. Akad. Nauk SSSR, Vol. X, No 17,
1960, pp 1513-1515.

Assoc Tech Serv RJ-1A13
" " " 73X23R

Sci. - Chem

Apr 65

85,297

Unsaturated Organic Silicon Compounds.
Preparation of Hexaacetylene Siloxane and
Triethoxysilylphenylacetylene, by
Yu. Vol'nov, A. Reutt.
RUSSIAN, per, Zhurnal Obshchei Khimii,
Vol X, No 17, 1940, pp 1600-1604.
SLA TT 64-30151

May 67

327,189

Acridyl-9 (omega-haloid methylketone), by G. I.
Brat, T. V. Gortinskaya, 4 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol X, Nos 19,
20, 1940, 1751-1756.

ATM 1-3-60
Sci Trans Center
RT-1378

Scientific - Chemistry

Dec 5: CIW/DEX

14,658

61-20394

JOURNAL OF GENERAL CHEMISTRY, 1940, VOL. 10, NO. 19/20: [TABLE OF CONTENTS] AND SELECTED ABSTRACTS. [1940] 11p. 10 refs.
Order from OTS or SLA \$1.60

61-20394

Abstract trans. of Zhurnal Obshchei Khimii (USSR) 1940, v. 10, no. 19/20, p. 1784-1812.

DESCRIPTORS: *Chemistry, Abstracting, Periodicals, USSR, Hydrocarbons, Polymerization, Polycyclic compounds, Anthracenes, Synthesis, Ethyl radicals, Alcohols, Dehydration, Methyl radicals, Reaction kinetics.

Contents:

Kinetics and mechanism of thermal conversion of unsaturated hydrocarbons. VII. Kinetics of polymerization of unsaturated hydrocarbons under low pressure (Chemistry JT. v. 7, no. 1)

(over)

Office of Technical Services

The Rate of Hydrogenation of Aromatic Hydrocarbons.
V. Polycyclic Aromatic Hydrocarbons, by N. V. Lazarev;

RUSSIAN J. Pure Appl. Chem. Obshch. Khim., Vol. 21, No. 21, 1949.
pp 1843-1851.

ACC BY-2026

Sci - Chem

May 60

115,390

Investigation of Mixed Crystals, III, by M. M.
Popov, S. M. Skuratov, Z. N. Nikonova

RUSSIAN, no per, Zhur Obshch Khim, Vol X, 1940,
pp 2017-2022.

AEC Tr 2348

Scientific - Chemistry
Jan 56 CTS

29,742

Determination of Active Hydrogen by Triazene's
Reagent in an Atmosphere of Carbon Dioxide,
by A. P. Tarantsev, K. D. Shcherbakova

Full translation.

RUSSIAN, Far, Zhur Obshch Khim, Vol. 11, 1946,
pp 2041-2046.

AEC Tr 1008

Scientific - Chemistry Jun 53 CBI/DEI

Sidorova, N. G. and Tsukervansk, I. P.
 CONDENSATION D'ALCOOLS AVEC LES HYDROCARBURES AROMATIQUES EN PRESENCE DE CHLORURE D'ALUMINIUM. CONDENSATIONS DU CYCLOHEPTANOL AVEC LE BENZENE ET LE TOLUENE (Kondensatsii Spirtov s Aromaticheskimi Uglvodородami v Priusutstvii Khlorida Al'yuminiya) (Condensation of Alcohols with Aromatic Hydrocarbons in Presence of Aluminum Chloride. Condensations of Cycloheptanol with Benzene and Toluene). 6p. 5 refs. FR-936.
 Order from OTS, ETC or CNRS \$0.20 62-26512

Trans. in French of Zhurnal Obshchei Khimii (USSR) 1940 [v. 10] no. 23-24, p. 2073-2076.
 An abstract trans. is available in English from OTS or SLA \$1.10 in 61-20378 [1961] 9p.

DESCRIPTORS: *Hydrocarbons, Aluminum compounds, Chlorides, Alcohols, *Benzenes, *Toluenes, Heptanes, *Condensation reactions.
 (Chemistry--Organic, TT, v. 10, no. 9)

62-26512

- I. Title: Cycloheptanol
- II. Sidorova, N. G.
- III. Tsukervansk, I. P.
- IV. 17/R-936
- V. Title: Condensations de...
- VI. Title: Condensations of...
- Centre National de la Recherche Scientifique, Paris (France)

(Office of Technical Services)

Spontaneous Condensation of Tetra (2-Chloroethyl)
-Ethylenediamine, by S. M. Eberlin, A. Ya. Berlin,
P. G. Kabanov.

2408 OBSHCH KHM
RESEARCH, USSR, Journal of General Chemistry, Vol XI,
1941.

AEC Tr 150

Scientific - Chemistry

14,626

Dynamics of Oxidation of Alkyl Substituted
Organic Compounds With Chromic Acid. I. Oxidation of
Oxidation of 2-methyl-anthraquinone and its
1-nitro- and 1-chloroderivatives to 2-carbonic
Acids of Anthraquinone, by . A. Il'inskiy, V. A. Ka
Kashkova, 17 pp.

RUSSIAN, no par, Zhur Obshch Khim, Vol II, No 1,
1941, pp 16-22.

Sol Tr Center
RT-3759

37,585

Sol - Chemistry

Aug 1956

Ultraviolet Absorption Spectra of *N*-phenyl Derivatives
of Pyrazolone. III., by V. E. Bliznyukov.

RUSSIAN, per, Zhur Obshch Khim, Vol II, No 1, 1941.

AEC Tr 212

Scientific - Chemistry

14,924

Identification of Some Anilides and Substituted Anilides,
by A. V. Kogorina, M. M. Klyuchareva, 22 pp.

Full translation.

RUSSIAN, per, Zhur Obshch Khim, Vol XI, No 1,
1981, pp 51-52.

NLL 3828.4/E
CIA/END/K-594

Scientific - Chemistry

Aug 13 CND/DEX

4578

Synthesis of Glucosido-2-Glucose, by A. M.
Galdokidze, 23 pp.

RUSSIAN, part, Zhur Obshch Khim, Vol XI, No 2, 1941,
pp 117-126. 9074516

NKX 1-813-61

Sci - Med
Mar 61

141,640

The Problem of Measurement of Electric Losses of
KOH₂ Aqueous Solutions of Sulfuric Acid, by K. P.
Mishchenko,

RUSSIAN, per, Zhurn Obshch Khim, Vol. XI, No 2, 1941,
pp 149-156.

Sci - Chemistry

Aug 1956

Assoc Tech Sv RJ-457

\$13.40

PO Box 271, East Rutherford Orange
N. J.

36,968

The Decomposition Mechanism of Sodium Hypochlorite, by
T. S. Gilman, M. Y. Dein, 8 pp.

RUSSIAN per, Zhur Ombeli Khim, Vol XI, No 3, 1941,
pp 150-156.

ATB-FUN550

Sci

Aug 59

93, 587

Zr. of KCl - Vol. 11, No. 3 (1941)

pp 200-202

The ester of Methyl Chloride or
allyl-maleic acid as a method
of obtaining esters of a-ketone acids
and in which case, by R. S. Smith, to

Gen. of H. E. O. 12567, 12568, 12569

Investigation of the Alkaloids of Trachalarthus
Korolkovi, by G. P. Men'shikov, G. M. Borodina,
5 pp.

RUSLAN, no par, Zhur Obshch Khim, Vol XI, No 3,
1941, pp 209-212.

Sci Tr Center
RT-2254

Scientific - Chemistry
CTB 70/Jul 55

25,222

Solubility and Ice Area in the Ternary
Systems $\text{NaF-HF-H}_2\text{O}$ and $\text{Na}_2\text{O-H}_2\text{F}_2\text{-H}_2\text{O}$, by
I. V. Talyanov, 12 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XI,
1941, pp 267-275.

SLA R-2299

Sci

Aug 58

72,210

Zh Obshch Khim Vol 11, page 285-92 (1941)

Electrical Conductivity of Argento-boric Glasses.
by B. I. Markin.

AEC Trans(avail. Brookhaven)

RESEARCH AND DEVELOPMENT OF TETRA (D-chloroacetyl)
amides, L. M. M. Shorlin, A. Ya. Borzov,
M. E. Radnitskii,

RESEARCH, 1981, Zhurnal Obshch Khimii, Vol XX, 1981,
pp 303-304.

ADD of 150

Scientific - Chemistry

15,826

61-18039

- I. Petrov, A. A.
 II. Title: Condensation...
 III. Title: Synthesis...

Petrov, A. A.
 RESEARCH ON CONJUGATED SYSTEMS. XIV. CON-
 DENSATION OF DIENE HYDROCARBONS WITH
 METHYL VINYL KETONE: SYNTHESIS AND PRO-
 PERTIES OF 1,2,3,6-TETRAHYDROACETOPHENONE
 AND ITS DERIVATIVES. [1961] pp. 48 refs.
 Order from OTS in SIA \$1.10 61-18039

Trans. of Zhurnal Obshchei Khimii (USSR) 1941, v. 11,
 p. 309-313

18039

DESCRIPTORS: *Hydrocarbons, *Methyl radicals,
 *Vinyl radicals, *Ketones, Condensation reactions,
 *Acetophenones, Synthesis, Chemical properties.

Condensation of butadiene, isoprene, 2,3-dimethyl-
 butadiene and 1,3-cyclohexadiene with methyl vinyl
 ketone was investigated. Isolation and determination of
 the properties of 1,2,3,6-tetrahydroacetophenone is
 reported, as well as the following derivatives of it:
 (Chemistry-Organic, TT, v. 6, no. 8) (over)

Office of Technical Services

Research on a Series of Heterocyclic Ketones,
by M. M. Shemyakin, E. I. Elkina.
RUSSIAN, per, Zhurnal Obshchei Khimii, Vol 11,
No 4, 1941, pp 349-352.
IOC C-5622

DLZ Ref: 8752B 1966

Sci-Chem
Aug 66

308,781

Enthalpy of Condensation of Aliphatic and Polymethylene
Hydrocarbons in Connection With Peculiarities of
Their Structure, by V. P. Gol'mov, 9 pp.

RUSSIAN, per. Elzar Gashch Khim, Vol. XI, No 5/6,
1967, pp 405-410.

SLA 59-10696

Sol - Chem
Sip 59
Vol 11, No 5

98,000

61-13105

- I. Gellman, V. V.
- II. Gellman, A. V.
- III. Table Preparation...

61-13105

121.71

Office of Technical Services

(Chemistry... (TT, v. 6, no. 7) (over)

Shvartsman, A. G.
GLUCOSIDE FROM LEAVES OF RHODODENDRON
FLAVUM IDON, tr. by Zaida D. Knowlton. 3 Nov 52.
10p. 15 refs.
Order from OYS or SLA \$1.10

61-28099

Trans. of Zhurnal Obshchei Khimii (USSR) 1941,
v. 11, no. 5/6, p. 467-470.

DESCRIPTORS: *Glucosides, *Quercetin, Sources.

From the leaves of Rhododendron flavum was isolated
 $C_{21}H_{20}O_{12}$, which belongs to the flavone group. A
study of glucoside revealed that it is quercetin-3-glucoside. (author)

(Chemistry--Organic. IT, v. 7, no. 2)

61-28099

1. Title: Rhododendron
1. Shvartsman, A. G.
II. National Institutes of
Health, Bethesda, Md.

OH co of Technical Services

Zhdanov, A. K.
HEAT CAPACITIES OF SOME PURE LIQUIDS AND
AZEOTROPIC MIXTURES. [1961] 7p. 5 refs.
Order from OJS or SLA \$1.10 61-16876

Trans. of Zhurnal Obshchei Khimii (USSR) 1941, v. 11,
no. 7, p. 471-482.

DESCRIPTORS: *Mixtures, Liquids, Boiling,
Thermochemistry, Thermodynamics.

The heat capacities under constant pressure (c_p) at ap-
proximate temperatures of 0°, 25° and 45° were deter-
mined for carbon tetrachloride, n-propyl alcohol,
benzene, isobutyl alcohol, toluene and the following
azeotropic mixtures: (1) benzene-methyl ethyl ketone;
(2) toluene-isobutyl alcohol; (3) benzene-n-propyl
alcohol; (4) carbon tetrachloride-n-propyl alcohol; (5)
carbon tetrachloride-isobutyl alcohol; (6) toluene-
n-propyl alcohol; (7) carbon tetrachloride-isobutyl
(Physics-Thermodynamics, TT, v. 6, no. 9) (over)

61-16876

I. Zhdanov, A. K.

105400

Office of Technical Services

Zhdanov, A. K.
INCREASE OF ENTROPY IN FORMATION OF
AZEOTROPIC MIXTURES. [1961] 5p. 9 refs.
Order from OTS or SLA \$1.10 61-16878

Trans. of Zhurnal Obshchei Khimii (USSR) 1941, v. 11,
no. 7, p. 483-492.

DESCRIPTORS: *Entropy, *Mixtures, Boiling,
Alcohols.

(Chemistry - Physical, TT, v. 6, no. 6)

61-16878

I. Zhdanov, A. K.

176591

Office of Technical Services

61-20373

JOURNAL OF GENERAL CHEMISTRY, 1941, VOL. 11,
NO. 7: [TABLE OF CONTENTS] AND SELECTED
ABSTRACTS. [1941 8p. 16 refs.
Order from OTS or SLA \$1.10

61-20373

Abstract trans. of Zhurnal Obshchei Khimii (USSR)
1941, v. 11, no. 7, p. 523-526, 533-536, 567-572.

DESCRIPTORS: Synthesis, Chemistry, Chemical re-
actions, Abstracting, *Hydrocarbons, *Carbon com-
pounds, *Oxides, *Ethylenes, *Methanes, Ketones,
*Benzolene, Hydrogen compounds, *Bromides,
*Magnesium compounds, Halides, *Acetals, *Chro-
mium compounds, Phenyl radicals, *Isomers,
*Molecular isomerism, Homocyclic transitions, Methyl
radicals, Alkyl radicals.

Contents:

Synthesis of isocyclins and isoparaffins with a
(Chemistry--Organic, TT, v. 7, no. 1)

(over)

- I. Title: Isoparaffins
- I. Title: Reaction...
- II. Title: Isomerization...

Office of Technical Services

61-16850

Harold, R. W. - 1916 Station A. N. A.

HYDROLYZATION OF UNSATURATED HYDRO- CARBONS IN CONTACT WITH METAL OXIDES

ANALYSIS OF 1-BUTENE

AND THEIR EFFECTS ON OVER OXIDES OF

41. HELIUM 132 CHROMIUM [1961] Sp. 22 re

61-10

1. The first step is to identify the variables that are being measured. In this case, the variables are the number of hours worked per week and the number of hours spent on household chores.

2. The second step is to determine the relationship between these variables. This can be done by calculating the correlation coefficient, which measures the strength and direction of the relationship.

3. The third step is to interpret the results. If the correlation coefficient is positive, it indicates that as the number of hours worked increases, the number of hours spent on household chores also tends to increase. Conversely, if the correlation coefficient is negative, it suggests that as the number of hours worked increases, the number of hours spent on household chores tends to decrease.

4. Finally, it is important to consider the limitations of the study. For example, the data may be self-reported, which could lead to biases. Additionally, the study only examines the relationship between work and household chores, without considering other factors that might influence the results.

U.S. Dept. of Health, Education and Welfare, Office of the Assistant Secretary for Health, Washington, D.C. 20462

1941. 11. 07. 527-532

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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CHINESE FARMER: "The old man, *Molecular beam"

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[The following text is extremely faint and largely illegible due to poor scan quality. It appears to be a list or index of names and dates.]

1. Levina, R. Ya.

H. S. Gupta, N. A.

III. Title: Isomerization of

4-Phenyl...

101430

Donald T. Galloway, Secretary

Table of contents and selected
abstracts.

Zhur Obshchi Khim, Vol 11, No 7,
1941, pp 567-572.

SLA 61-20373

SLA 61-20373

Table of contents and selected
abstracts.

Zhuk. Ushchek Khim, Vol. 11, No 7,
1941, pp 533-536.

SLA 61-20373

Ther. Oshad Khim

Vol 11, pp 707-12 (1941)

The Action of Ethylorthoformate on Diacetyl-
and Acetyl - Acetone

L. N. Jarnentsev and
A. M. Mezger

Done by the Moscow Lab
for the - 10/15/54

The Order of Addition of Hydrogen Halides to Halogen-substituted ~~hydro~~-oxides, by A. A. Petrov, 17 pp.

RUSSIAN, per, Zhur. Obshchei Khimii, Vol XI, No 9, 1941, pp 713-721.

Sci Tr Center RT-2497

USSR
Scientific - Chemistry

28, 272

Nov 55
CTS/DEX

Bryunova, L. Ya. and Ioffe, M. L.
SYNTHESIS OF EUGENOL. [1961] 7p. 12 refs.

Order from OTS or SLA \$1.10

61-18084

Trans. of Zhurnal Obshchei Khimii (USSR) 1941, v. 11,
no. 9, p. 222-223.

DESCRIPTORS: Eugenol, Synthetis, Boron Compounds,
Fluorides, Acetic acids.

A method of synthesis of eugenol was developed giving
up to 30% yields. In isomerization of the allyl ether of
guaiacol, the allyl radical was shown to be able to pass
into the p-position, even if a free o-position is avail-
able, when the ether is acted upon by boron fluoride or
its molecular compound with acetic acid. The synthesis
consists in isomerization of the allyl ether of guaiacol
under the action of either boron fluoride or the molecu-
lar compound of boron fluoride with acetic acid.
Guaiacol is a by-product of the rearrangement. In addi-
(Chemistry: Physical, TT, v. 6, no. 8) (over)

61-18084

L. Bryunova, L. Ya.
M. Ioffe, M. L.

55134

Office of Technical Services

61-20371

JOURNAL OF GENERAL CHEMISTRY, 1941, VOL. 11,
NO. 9 [TABLE OF CONTENTS] AND SELECTED

ABSTRACTS. [1961] 5p. 10 refs.

Order from OTS or SLA \$1.10

61-20371

Abstract trans. of Zhurnal Obshchei Khimii (USSR)

1941, v. 11, no. 9, p. #683-685, 707-712, 745-756.

*A complete trans. is available from OTS or SLA \$1.10
as 61-18071 [1961] 4p.

DESCRIPTORS: *Alcohols, Dehydrogenation, *Aluminum
compounds, Chemistry, Abstracting, *Sulfides,
*Catalysts, Esters, Acetyl radicals, Acetones,
*Methyl radicals, Sulfates, Stilbenes, Chemical re-
actions, *Alkyl radicals, Phenols, Phenyl radicals,
Amines.

(Chemistry, TT, v. 7, no. 6)

(over)

I. Title: Dehydrogenation ...

II. Title: Dimerization ...

III. Title: Interaction ...

Office of Technical Services

Glagoleva, A. A.
 EQUILIBRIUM OF THE SYSTEM FORMIC ACID-
 WATER. [1960] 4p. 20 refs. TL 1234. M12139.
 Order from TL for \$1.50 (SI 80, ph \$1.80) 61-13634

Trans. of [Zhurnal Obshchei Khimii] (USSR) 1941,
 v. 11, no. 10, p. 165-167.

The phase diagram of the formic acid-water system
 has two characteristic maxima corresponding to
 1 g-mole water to 1 g-mole acid and 2 g-mole water to
 1 g-mole acid. Three regions of eutectic crystalliza-
 tion are apparent on the phase diagram. Formic acid
 forms two stable systems with water in solution:
 $\text{HCOOH} \cdot \text{H}_2\text{O}$ and $\text{HCOOH} \cdot 2\text{H}_2\text{O}$. (Author)

(Chemistry--Physical, TT, v. 5, no. 3)

61-13634

I. Formic acid: Solubility
 I. Glagoleva, A. A.
 II. Trans-TL 1234
 III. DSR 1-11 M 21 39

142,958

Office of Technical Services

Effect of the Penetrating Ray of Radium on the
Colloidal - Chemical Properties of Gelatin Sols, by
A. M. Khenikh, 38 pp.

RUSSIAN, no par, Zhur Obshch Khim, II No 11, 1911,
pp 776 - 786.

0010 Tr
Q11-269

Sci - Chem

Jan 52 CTS

Turova-Polyak, M. B. and Sidel'kovskaya, P. P.
ISOMERIZATION OF POLYMETHYLENE HYDRO-
CARBONS UNDER THE ACTION OF ALUMINUM
CHLORIDE. VII. ISOMERIZATION OF CYCLO-
HEPTANE. [1961] 15 refs.
Order from OTS for SLA \$1.10

61-18017

Trans. of Zhurnal Khimicheskoi Fiziki (USSR) 1961, v. 31,
[no. 10] p. 817-820.

DESCRIPTORS: *Hydrocarbons, *Cycloheptanes,
*Molecular isomerism, Aluminum compounds,
Chlorides.

Isomerization of cycloheptane under the action of alumi-
num chloride was investigated. It was established that
aluminum chloride isomerizes cycloheptane to methyl-
cyclohexane to the extent of 97-98%; thus, isomeri-
zation of a seven-member naphthene into a six-member
naphthene was accomplished. (Author)
(Chemistry--Organic, TT, v. 6, no. 7)

61-18017

- I. Turova-Polyak, M. B.
- II. Sidel'kovskaya, P. P.
- III. Title: Isomerization
of Cycloheptane

1961

Office of Technical Services

61-18016

Turova-Polyak, M. B. and Sidel'ovskaya, I. P.
ISOMERIZATION OF POLYMERIZABLE HYDRO-
CARBONS IN THE ACTION OF ALUMINUM
CHLORIDE. VII. ISOMERIZATION OF HEXAHY-
DROMETHYLENE. (1961) Jp. 8 refs.
Chem. Abstr. 56:10110

61-18016

Tran, C. Zhurnal Obshchei Khimii (USSR) 1961, v. 31
(no. 10), 2711-2721

DESCRIPTION: Hydrocarbons, Cyclohexanes,
Molecular isomerism, Methyl radicals, Aluminum
compounds, Chlorides.

The process of isomerization of hexahydromethylenes
with aluminum chloride was investigated. Interaction of
elementary radicals with hexahydromethylenes gives a
mixture of hydrocarbons of which 63% consist of cyclo-
hexanes (including hexahydromethylenes), 9% of cyclo-
pentanes and 28% of paraffins. The group composition of
the isolated hydrocarbons confirms the previously made
(Chemistry--Organic, T.T. v. 6, no. 7) (over)

I. Turova-Polyak, M. B.
II. Sidel'ovskaya, I. P.
III. Title: Isomerization of
Hexahydromethylene

18016

Office of Technical Services

Turev-Polyak, M. B. and Vsevolozhskaya, E. V.
 ISOMERIZATION OF DIMETHYLCYCLOPENTANE HYDRO-
 CARBONS UNDER THE ACTION OF ALUMINUM
 CHLORIDE. I. ISOMERIZATION OF 1,2-DIMETHYL-
 CYCLOPENTANE. 19135p. 22 refs.
 Order from OZ or SLA \$4.10

CI-18015

Transtr. R. Zhurnal Khimicheskoi Khimii (1958) 1941, v. 31
 (no. 10) p. 575-578.

DESCRIPTORS: *Hydrocarbons, *Cyclopentanes,
 *Isomerization, *Aluminum compounds,
 Chlorides.

The process of isomerization of 1,2-dimethylcyclopentane under the action of aluminum chloride was investigated. It was established that 96.7% methylcyclopentane is formed by isomerization of 1,2-dimethylcyclopentane. It was shown that the presence of two substituent groups in the molecule of cyclopentane does not (Chemistry-Organic, TL v. 6, no. 7) (over)

CI-18015

I. Turev-Polyak, M. B.
 II. Vsevolozhskaya, E. V.
 III. Title: Isomerization of 1,2-Dimethylcyclopentane

Office of Technical Services

Investigation of the Alkaloids of Senecio Othocnace, by
E. S. Zhdanovich, G. P. Men'shikov, 7 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XI, No 10, 1941,
pp 835-838.

28,992

Sci Tr Center
RT-2255

Scientific - Chemistry

Dec 55 CTS/DEX

Acridyl-9-(omega-haloidmethylketone). II. Pro-
duction of 2-methoxy-6-chloracridin, by G. I. Braz,
3 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol. XI, No 10,
1941, pp 851-858.

Sci Trans Center
RT-1379

14,625

Scientific - Chemistry

Dec 54 CTS/DEX

Equilibrium in the System Urea-Monoammonium
Phosphate-Water, by V. P. Blindin, 7 pp.

RUSSIAN, per, Zhur Otschei Khim, Vol XI, 1941, pp
887-890.

SLA R-2855

Sci

Jul 59

92, 395

The Kinetics and the Mechanism of the Oxidation-Reduction Reactions. VI. The Kinetics of the Oxidation Reaction of the Ferrocyanide by Dichromate; The Jet Method, by V. F. Stefanovsky. RUSSIAN, per, Mur Dzhich Khim, Vol. 1, 1941, pp 96-99, EC-15-Tr-16

Sci-Chem
Jul 61

282,621

Delimarskii, Yu. K.
EQUILIBRIUM BETWEEN SOME MOLTEN METALS
AND THEIR BROMIDES IN ALUMINUM BROMIDE-
POTASSIUM BROMIDE AS SOLVENT. [1962] 21p.
Order from K-11 \$26.25 K-H 5866 g

Trans. of Zhurnal Obshchei Khimii (USSR)
1941, v. 11, no. 13/14, p. 1081-1091.

DESCRIPTORS: *Liquid metals, *Aluminum compounds,
*Potassium compounds, *Bromides,
Chemical equilibrium.

63-12934

- I. Delimarskii, Yu. K.
- II. K-H-5866-g
- III. Krenge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Petrov, A. D. and Shchukin, V. I.
ISOMERIZATION OF NORMAL HEPTENE TO
METHYLDIETHYLENE AND OF NORMAL
OCTENE TO DIMETHYLBUTYLENE. (1951)

5p. 8 refs.

Order from OTS or SLA \$1.10

61-16934

Trans. of Zhurnal Obshchei Khimii (USSR) 1941, v. 11,
p. 1092-1095.

DESCRIPTORS: *Octenes, Isomerism, Chain reactions,
*Ethylenes, *Hydrocarbons, Raman spectroscopy,
Heptenes, Methyl radicals, Ethyl radicals, Butyl
radicals

Isomerization of normal 1-heptene to methyldiethyl-
ethylene and of normal 1-octene to dimethylbutylethyl-
ene was established. The difference in the schemes of
isomerization of normal olefins into branched chain
(Chemistry--Organic, TT, v. 6, no. 9) (over)

61-16934

I. Petrov, A. D.
II. Shchukin, V. I.

105407

Office of Technical Services

61-16935

Petrov, A. D., Verentsova, N. I., and
Kokleeva, T. A.
SYNTHESIS OF 2-METHYL-4-HEXYNE AND
2,6-DIMETHYL-3-HEPTYNE. (1961) 8p. 12 refs.
Order from OTS or SLA \$1.10 61-16935

Trans. of Zhurnal Obshchei Khimii (USSR) 1961,
v. 31, p. 1096-1099.

DESCRIPTORS: Hydrocarbons, Synthesis, Antiknock,
*Fuels, Methyl radicals, *Heptynes, *Hexynes.

Synthesis of two new hydrocarbons is reported,
2-methyl-4-hexyne and 2,6-dimethyl-3-heptyne. Anti-
knock properties of acetylenic hydrocarbons have been
evaluated. (Author)

(Chemistry--Organic, TT, v. 6, no. 9)

I. Petrov, A. D.
II. Verentsova, N. I.
III. Kokleeva, T. A.

003408

Office of Technical Services

Petrov, A. D. and Karlik, L. D.
SYNTHESIS OF GLYCOLS OF THE ACETYLENE
SERIES [1961] 5p. 16 refs.
Order from OTS or SLA \$1.10

61-16936

Trans. of Zhurnal Obshchei Khimii (USSR) 1961, v. 31,
p. 1100-1111

DESCRIPTORS: Glycols, Synthesis, *Acetylenes,
Alcohols, Antiknock

Synthesis of three acetylenic 7-glycols is reported
5-octyne-4,7-diol, 9-octadecyne-8, 11-diol, 10, 13-
dinonyl-11-octyne-10, 13-diol. The method of
synthesis of glycols and alcohols of the acetylene
series suggested by L. Katsaryn was used. Anti-
knock properties of acetylene alcohols and their sus-
ceptibility to tetraethyllead was studied. (Author)

(Chemistry--Organic, TT, v. 6, no. 7)

61-16936

I Petrov, A. D.
II Karlik, L. D.

(Here at Technical Services)

61-16937

Petrov, A. D., Pavlov, A. M., and Makarov, Yu. A.
SYNTHESIS OF 3-ETHYLDECANE AND 2,5-DI-
METHYLUNDECANE. [1961] 3p. 4 refs.
Order from OTS or SLA \$1.10

61-16937

- I. Petrov, A. D.
- II. Pavlov, A. M.
- III. Makarov, Yu. A.

Trans. of Zhurnal Obshchei Khimii (USSR) 1941, v. 11,
p. 1104-1106.

DESCRIPTORS: Synthesis, Antiknock, Halogenation,
*Hydrocarbons, Chain reactions, *Fuels, Ethyl
radicals, Methyl radicals.

Syntheses of two new paraffins are reported, 3-ethyl-
decane and 2,5-dimethylundecane. Antiknock properties
and pour points of three normal and branched chain
paraffins with 12 and 13 carbon atoms have been
evaluated. (Author)

(Chemistry--Organic, TT, v. 6, no. 9)

Office of Technical Services

15409

Petrov, A. D. and Lapteva, E. I.
 SYNTHESIS AND PROPERTIES OF SOME HIGHER
 HOMOLOGS OF HEPTANE (1961) 5p. 12 r.s.
 Order from OTS or CIA \$1.10 61-16938

Trans. of Soviet Chemical Union (USSR) 1961, v. 1,
 p. 126-131.

DISCUSSIONS: Alkylations, Synthesis, Antiknock,
 Chain reactions, Hydrocarbons.

This report contains data on homologs of heptane with branched side
 chains which are synthesized, methylheptyl, dimethylheptane,
 ethylheptyl, isopropylheptane and dimethylpentadecyl-
 pentadecane. Antiknock properties of these compounds
 are representative of the series C_nH_{2n+2} with
 branched and normal paraffin chains were evaluated.
 (Author)

(Chemistry - Organic, TT, v. 6, no. 7)

61-16938

1. Petrov, A. D.
 2. Lapteva, E. I.

Office of Technical Services

Oxy-analogs of Ascorbic (Vitamin B-1),
by Y. M. Elshodja, M. S. Zeigal, Tp.
RUSSIAN, per, Zhurnal Obshchey Khimii,
Vol 11, No 12, 1941, pp 1019-1022.
OTS TB-55-60045

Sci
Jul 67

333, 592

The Condensation of Acetylene With Ketols, by
A. E. Favorovskiy, A. S. Onishchenko.

RUSSIAN, per Zhur Obshch Khim, Vol XI,
No 13/14, 1941, pp 1111-1120.

DSIR LLU M.1337
(loan)

Sci - Chem

Oct 60

128,907

Kazanski, B. A., Liberman, A. L. and others.
RELATIVE EFFICIENCIES OF LABORATORY DISTILLATION COLUMNS OF DIFFERENT CONSTRUCTION. [1961] 10p. 25 refs.
Order from OTS or SIA \$1.10

61-16657

Trans. of Zhurnal Obshchei Khimii (USSR) 1942, v. 12, p. 112-125.

DESCRIPTORS: *Towers (Chemistry) Liquids, Mixtures, Separation, Distillation plants.

An experimental comparison of a number of fractionating columns including those designed by Lebel, Vigreux, Artuzov, Widner, Dobryanski and Gal'pern, Wilson and Penke, revealed that a column packed with glass helices forming a layer 140-150 cm high is more efficient than the other dephlegmators tested. When the packing was divided into three sections separated by pieces of glass tubing, the height equivalent to one theoretical plate was 5.8 cm. I.e., the number of (Engineering--Chemical, TT, v. 6, no. 6) (over)

61-16657

I. Kazanski, B. A.
II. Liberman, A. L.

176564

Office of Technical Services

Volume: Dated: 1981, E. D. and 10/10/1981, A. 1.
 DITHIOBATE OF ALCOHOLS CONTAINING POLY
 NITROETHYLENE BODIES. (201) 187. 4. 10/10/1981
 Order from CIB or SIA \$1.10 64-10617

Dokl. Akad. Nauk SSSR 1992, Vol. 275, No. 12, pp. 178-186.

DISEASES: • Anthrax, Botulism, • Meningitis,
• Sepsis, Chemical poisoning

has an extremely high rate of polymerization in the presence of a radical initiator, and the polymerization is exothermic. From the thermodynamic data of the polymerization of benzoyl peroxide, it was calculated that the polymerization of anhydrides could be carried out in a safe manner. The thermodynamic data of the polymerization of benzoyl peroxide are shown in Table I. The polymerization of benzoyl peroxide is exothermic, and the polymerization of benzoyl peroxide is exothermic. The polymerization of benzoyl peroxide is exothermic, and the polymerization of benzoyl peroxide is exothermic.

61-10617

1. V. A. Danilova, E. D.
2. B. I. Zhukhin, A. I.

Office of Technical Services

(Chemistry - Physical,
PL 8-0-04-3)

Petrus, A. D. and Chel'tsova, M. A.
SYNTHESIS AND PROPERTIES OF AROMATIC AND
NAPHTHENIC HYDROCARBONS WITH FROM 19 TO
26 CARBON ATOMS. II. [1961] 7p. 17 refs.
Order from OTS or SLA \$1.10 61-16637

Trans. of Zhurnal Obshchei Khimii (USSR) 1942, v. 12,
p. 87-94.

DESCRIPTION: Fuel oil. *Benzenes. *Cyclohexanes.
Naphthalenes. *Hydrocarbons. Synthesis. Chemical
properties. Alkyl radicals.

Synthesis of 12 hydrocarbons with from 19 to 26 carbon
atoms is reported, mainly monoalkylbenzenes and
monoalkylcyclohexanes. Physical constants and the
most important technical properties characterizing
these hydrocarbons as diesel fuel constituents have
been evaluated. (Author)

(Chemistry--Organic, TT, v. 6, no. 7)

61-16637

I. Petrus, A. D.
II. Chel'tsova, M. A.

Office of Technical Services

Petrov, A. D. and Kaplan, E. P.
SYNTHESIS AND PROPERTIES OF ISOPARAFFIN
HYDROCARBONS OF THE COMPOSITION $C_{12}-C_{22}$
COMMUNICATION 2. [1963] 9p. 13 refs.
Order from OTS or SLA \$1.10 63-16801

Trans. of Zhurnal Obshchei Khimii (USSR) 1942, v. 12
[no. 1/2] 7-9-103
An abstract trans. is available from OTS or SLA \$1.00
as 61-20323 [1961] 11p.

DESCRIPTIONS: *Alkanes, *Alkenes, *Ethyl radicals,
*Methyl radicals, *Propyl radicals, Hydrocarbons,
Physical properties, Chemical properties, Bromides,
Synthesis (Chemistry).

The following hydrocarbons were synthesized for the
first time: 4,5-diethyloctane, 2,7-dimethyl-4,5-
diethyloctane, 7,8-dimethyltridecane, 5,6-dibutyl-
(Chemistry--Organic, TT, v. 10, no. 7) (over)

63-16801

I. Petrov, A. D.
II. Kaplan, E. P.

Office of Technical Services

Kazanaki, B. A., Liberman, A. L. and others.
RELATIVE EFFICIENCIES OF LABORATORY FRACTIONATING OF VARIOUS CONSTRUCTIONS. [1963]
23p. 25 rubs.

Order from OTS or SLA \$2.60

63-16037

Trans. of Zhurnal Obshchei Khimii (USSR) 1942,
v. 12, p. 119-122.

Another trans. is available from OTS or SLA \$1.10 as
61-16457 [1963] 10p. and an abstract trans. \$1.60 in
61-20323 [1963] 18p.

DESCRIPTORS: *Towers (Chemistry); *Distilling
plants; Construction; Design; Effectiveness;
*Fractionation.

For abstract see Technical Translations 5: 417, 1961.

(Engineering--Chemical, TT, v. 10, no. 6)

63-16037

I. Kazanaki, B. A.
II. Liberman, A. L.

Office of Technical Services

62-20386

I. de Iandln, A. A.

Belandln, A. A.
KINETICS OF CATALYTIC MONOMOLECULAR
REACTIONS IN A FLOW SYSTEM, WITH DISCOUNT
OF DISPLACEMENT THROUGH ALIEN SUBSTANCES.
[1962] 8p. 10 refs.

Order from OTS or SLA \$1.10

62-20386

Trans. of Zheurnal Obshchei Khimii (USSR) 1942,
v. 12, no. 3/4, p. 151-159.

An abstract trans. is available from OTS or SLA \$1.10
in 61-20355 [1961] 5p.

DESCRIPTORS: *Reaction kinetics, *Catalysis, Fluids,
Pressure, Dehydrogenation, Alcohols, Molecular
isomerism.

A kinetic equation was deduced and solved for a
general case mentioned in the title (steady state).
Some admissible simplifications were examined. Re-
(Chemistry-Physical, TT, v. 9, no. 12) (over)

Office of Technical Services

Theory of Heat Capacities of Ions in Solution, by
A. F. Kapustinskiy, 10 pp.

RUSSIAN, ~~and~~ bino per, Zhur Obshch Khim, Vol XII,
No 3-4, 1942, pp 186-192.

Sci Tr Center RT-328

Scientific - Chemistry

10,138

Medvedchuk, P. I., Aldoshin, T. D. and others.
REACTIONS OF IODINE, IODINE CHLORIDE AND
THIOCYANOGEN WITH HYDROCARBONS OF
NATURAL AND SYNTHETIC RUBBERS. [1961] 7p.
23 refs.

Order from DTIC or SLA \$1.10

61-16638

Trans. of Zhurnal Obshchei Khimii (USSR) 1942, v. 12,
p. 220-221.

DESCRIPTORS: Iodine, Iodine compounds, Chlorides,
Hydrocarbons, *Rubber, *Synthetic rubber, Chemical
reactions, Thio radicals, Cyanogen.

Interaction of solutions of iodine, iodine chloride and
thiocyanogen with solutions of natural and synthetic
acetylenic rubber were investigated. Data were
obtained proving beyond doubt the analogous properties
of the hydrocarbons investigated. However, their
chemical activities differ, due to differences in struc-
ture. Addition products of halogens and thiocyanogen to
(Materials--Rubber, TT, v. 6, no. 6) (over)

61-16638

I. Medvedchuk, P. I.
II. Aldoshin, T. D.

176562

Office of Technical Services

Namstkin, S. S. and Teneva, R. S.
NEUTRAL PRODUCTS OF OXIDATION OF PARAFFIN
WAX WITH OXYGEN OF THE AIR [1961] 9p. 10 refs.
Order from OTS or SLA \$1.10 61-16666

Trans. of Zhurnal Obshchei Khimii (USSR) 1942,
v. 12, p. 229-239.

DESCRIPTORS: *Synthetic waxes, Oxidation, Oxygen,
Air, Aldehydes, Alcohols, Peroxides.

Investigation of the neutral products of oxidation of
paraffin wax, with oxygen of the air established that
they contain straight chain aldehydes (from butyric to
stearic, inclusive, and primary alcohols from propyl
to octadecyl, inclusive). The mechanism of oxidation of
paraffin wax with oxygen of the air is discussed, show-
ing that the entire factual material available can be
interpreted from the point of view of the peroxide
theory. (Author)

(Chemistry--Physical, TT, v. 6, no. 6)

61-16666

I. Namstkin, S. S.
II. Teneva, R. S.

176667

Office of Technical Services

Nikolova, A. F.
HYDROGENATION OF METHYL CYCLOPENTANE
AND CYCLOHEXANE UNDER HYDROGEN PRESSURE.
(1961) 6p. 14 refs.

Order from ODS or SLA \$1.10

61-16679

Trans. of Zhurnal Obshchei Khimii (USSR) 1962, v. 32,
p. 240-243.

DESCRIPTORS: Hydrogenation; Cyclopentanes;
Cyclohexanes; Hydrocarbons; Hexanes; Methyl
radicals

Hydrogenation of methylcyclopentane at 100° and in-
stantaneous hydrogen pressure of 140 atm in the presence
of molybdenum sulfide brought about a conversion of
the hydrocarbon to normal heptane, isohexane and 3-
methylpentane. Simultaneously with hydrogenation,
the formation of methylcyclopentane occurred, forming
cyclohexane. Investigation of the products of hydro-
genation of cyclopentane revealed that with increase of
(Chemistry--Organic, TL, v. 6, no. 7) (over)

61-16679

I. Nikolova, A. F.

1961

Order from ODS or SLA \$1.10

Kazanskii, R. A. and Rozengart, M. I.
CATALYTIC POLYMERIZATION OF BUTENES OVER
ALUMINUM SILIKATE, IL [1961] 10p, 12 refs.
Order from OTS or SLA \$1.10 61-16640

Trans. of Zhurnal Obshchei Khimii (USSR) 1942, v. 12,
p. 265-264.

DESCRIPTORS: *Butenes, Polymerization, Aluminum
compounds, *Silicates, Catalysts.

(Chemistry--Organic, TT, v. 6, no. 7)

61-16640

I. Kazanskii, R. A.
II. Rozengart, M. I.

Office of Technical Services

61-16916

Alekseevskii, E. V. and Kuznetsova-Kharina, O. M.
INVESTIGATION OF SORPTION OF ACETYLENE,
[1961] 10p. 19 refs.

Order from OTS for SLA \$1.10

61-16916

Trans. of Zhurnal Obshchei Khimii (USSR) 1942, v. 12,
p. 296-306.

DESCRIPTORS: Acetylene, Cellulose, Esters, Catalysis, Sorbates, Adsorbents.

The dynamic activity of various sorbents and certain
other substances to acetylene have been investigated,
and on the basis of the data obtained the suitability of
the following substances established for gas mask pro-
tection against acetylene: various commercial carbon
gels, impregnated charcoal and hopcalite. The retain-
ing capacity of various impregnated carbons with
respect to acetylene is insignificant. The sorption
isotherms have been investigated for acetylene on
ethyl n-hexadecyl ketone, cellulose and some esters
(Chemistry--Organic, TT, v. 6, no. 7) (over)

I. Alekseevskii, E. V.
II. Kuznetsova-Kharina, O. M.

Office of Technical Services

61-16323

I. Alekseyevskii, E. V.
 II. Loharev, E. A.
 III. Title: Chlorine...

Alekseyevskii, E. V. and Loharev, E. A.
 EFFECT OF SOME CHEMICAL AND PHYSICAL
 FACTORS ON THE ACTIVITY OF CARBON. VIII.
 CHLORINE ACTIVATION. [1961] 143, 15 refs.
 Order from ODS or S. A. \$1.60 61-16893

Trans. of Zhurnal Obshchey Khimii (USSR) 1942, v. 12,
 p. 136-141.

ENGLISH: *Activated carbon; Synthesis;
 *Chlorine; Adsorption; Vapors.

Preparation of active carbon from various raw materials by desulfurization at 750° and 950° was investigated. Sorption of superheated and dissolved substances by chlorine-activated carbon was studied. Marked sorption activity of chlorine-activated carbon was established with respect to vapors, as well as dissolved substances, which exceeds in some cases the activity of steam-activated commercial carbon. The considerable amount of chlorine accumulated in chlorine-activated (Chemistry-Physics, IT, v. 6, no. 7) (over)

Office of Technical Services

The Alkaloid Delphinine From Delphinium Sp. I. Alka-
loids of the Species of Delphinium, by H. S. Rabinovich,
and R.A. Kononova.

Full translation.

RUSSIAN, no page, Zhurn Obshch Khim, USSR, Vol XII, 1942,
pp 321-322.

ARC T- 1457

Scientific - Chemistry, alkaloid delphinine

Doc 52 CUS/DEX

I. The Alkaloid Codelphine From *Delphinium Confusum*
H. Pop; II. Alkaloids of Species of *Delphinium*
fam. Ranunculaceae, by M. S. Rabinovich, E. A.
Korotkova.

R.

Full translation.

RUSSIAN, no par, Zhur Obshch Khim, Vol XII, USSR,
1942, pp 329-336.

AEC Tr 1631

Scientific - Chemistry

Aug 53 EFB

4823

Organometallic Compounds in the Friedel-Crafts
Reaction, by A. P. Skoldinov, K. A. Kocheskov, 5 pp.

RUSSIAN, per Zhur Obshch Khim, Vol XII, No 7-8,
1942, pp 395-402.

Assoc Tech Serv RJ688

Sci
Apr 59

84,465

Method for the Synthesis of Organo-Metallic
Lead Compounds With a Substituted Group
in the Benzene Nucleus, by M. M. Nad',
K. A. Kocheshkov.
RUSSIAN, per, Zhur Obshchei Khim, Vol XII,
1942, pp 409-414.
K-1-6108

Jan 67

317,903

61-16664

LEVINA, R. Ya.
MECHANISM OF IRREVERSIBLE CONTACT CONVERSION OF CYCLOHEXANE AND CYCLOHEXENE HYDROCARBONS WITH UNSATURATED SIDE CHAINS. II. IRREVERSIBLE CATALYSES OF A CYCLOHEXANE WITH AN OLIFINIC SIDE CHAIN. THE DOUBLE BOND IS WHICH IS SEPARATED FROM THE RING BY 14 OR OTHER CARBON ATOMS. [1961] 10p.

Order form (OS) or SLA 11.10 61-16664

Trans. of Technical Chemicals (USSR) 1942, v. 12, no. 12, p. 12.

31.604 (1942) Hydrocarbons, Cyclic, v. 1, p. 12. Chemical bonds, Molecular structure.

The mechanism of the previously proposed mechanism of a new catalytic contact conversion of cyclohexane and cyclohexene with unsaturated side chains was verified (Chemistry of Organic Compounds, T. 6, no. 7) (over)

- I. Title: Contact conversion
1. Levina, R. Ya
- II. Title: Irreversible...

Office of Technical Services

63-22015

Nad, M. M. and Kocheskov, K. A.
METHOD FOR THE SYNTHESIS OF ORGANO-METAL-
LIC LEAD COMPOUNDS WITH A SUBSTITUTED
GROUP IN THE BENZENE NUCLEUS. [1963] 9p
Order form K-H 59.00 K-H 6108

Trans. of Zhurnal Obshchei Khimii (USSR) 1942,
v. 12 (no. 7/8) p. 109-114.
Abstract trans. is available from OTS or SIA \$1.10
in 61-20327 [1961] 5p.

DESCRIPTORS: *Metalorganic compounds, *Lead
compounds, *Benzene, Substitution reactions, Syn-
thesis (Chemistry), Nuclei.

(Chemistry--Organic, TT, v. 10, no. 12)

I. Nad, M. M.
II. Kocheskov, K. A.
III. K-H-6108
IV. Greeng-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Extraction of Pyrophosphoric Acid, by I. E.

Chen, 7 pp.

WILSON, per, Hour O'clock, Vol III, 1961.

pp 468-473.

SLA H-2646

Sol

Aug 58

72,769